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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/723,972	11/28/2000	Tomoko Yamaguchi	NAK1-BN18	6515

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EXAMINER

DODDS, HAROLD E

ART UNIT	PAPER NUMBER
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2177

DATE MAILED: 11/14/2003

5

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/723,972

Applicant(s)

YAMAGUCHI ET AL. 

Examiner

Harold E. Dodds, Jr.

Art Unit

2177

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 November 2000.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-30 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 28 November 2000 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

2. Claims 1-9, 16-18, 21-23, and 26-28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rusterholz et al. (U.S. Patent No. 4,873,630), Furegati et al. (U.S. Patent No. 5,966,704), and Hisatomi et al. (U.S. Patent No. 6,546,192).

3. Rusterholz renders obvious independent claim 1 by the following:
"...a file storage unit operable to store files which each include a plurality of numbered pieces of data..." at col. 49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7.
"...a position information storage unit operable to store pieces of position information..." at col. 137, lines 38-41 and col. 49, lines 10-14.

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"...that indicate segment storage positions in the file storage unit..." at col. 39, lines 27-35 and col. 49, lines 10-14.

"...the pieces of position information being in a one-to-one correspondence with segment names..." at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39.

"...and each segment being a set of pieces of data..." at col. 39, lines 27-35 and col. 201, lines 41-42.

"...specifying a segment name..." at col. 39, lines 35-39.

"...a position information read unit operable to read..." at col. 137, lines 38-41 and col. 54, lines 17-19.

"...from the position information storage unit..." at col. 137, lines 38-41 and col. 49, lines 10-14.

"...a piece of position information corresponding to the segment name..." at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39.

"...in the file storage unit..." at col. 49, lines 10-14.

"...by referring to the read piece of position information..." at col. 54, lines 17-19 and col. 137, lines 38-41.

Rusterholz does not teach the use of segment access requests and the use of consecutive numbers.

4. However, Furegati teaches the use of segment access requests as follows:

"...an access request receiving unit operable to receive a segment access request..." at col. 13, lines 4-9.

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"...specified in the segment access request..." at col. 13, lines 4-9.

"...and a segment access unit operable to access a segment..." at col. 8, lines 39-43.

It would have been obvious to one of ordinary skill at the time of the invention to combine Furegati with Rusterholz since both Rusterholz and Furegati teach the use of computers, the use of files, the use of segments, the storing of data, the searching for data, and the processing of requests. Rusterholz provides file storage units, position information, the storage of segments, and segment names and Furegati provides segment access requests.

Furgati does not teach the use of consecutive numbers.

5. However, Hisatomi teaches the use of consecutive numbers as follows:

"... having consecutive numbers..." at col. 4, lines 46-48.

It would have been obvious to one of ordinary skill at the time of the invention to combine Hisatomi with Rusterholz and Furegati since Rusterholz, Furegati, and Hisatomi teach the use of computers, the use of files, the use of segments, the storing of data, and the searching for data, Rusterholz and Hisatomi teach the use of memory, and Furegati and Hisatomi teach the use of video. Rusterholz provides file storage units, position information, storage units, the storage of segments, and segment names, Furegati provides segment access requests, and Hisatomi provides consecutive numbers.

6. As per independent claim 2, the "...file storage unit operable to store files which each include a plurality of pieces of data..." is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7,

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the "...that have each been assigned a timecode..." is taught by Hisatomi at col. 5, lines 37-45 and col. 20, lines 49-54,

the "...a position information storage unit operable to store pieces of position information..." is taught by Rusterholz at col. 137, cline 38-41 and col. 49, lines 10-14,

the "...that indicate segment storage positions in the file storage unit..." is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14,

the "...pieces of position information being in a one-to-one correspondence with segment names..." is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39,

the "...each segment being a set of pieces of data..." is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...having consecutive timecodes..." is taught by Hisatomi at col. 4, lines 46-48 and col. 20, lines 49-54,

the "...access request receiving unit operable to receive a segment access request..." is taught by Furegati at col. 13, lines 4-9,

the "...specifying a segment name..." is taught by Rusterholz at col. 39, lines 35-39,

the "...a position information read unit operable to read..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...piece of position information corresponding to the segment name..." is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39,

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the "...specified in the segment access request..." is taught by Furegati at col. 13, lines 4-9,

the "...and a segment access unit operable to access a segment..." is taught by Furegati at col. 8, lines 39-43,

the "...in the file storage unit..." is taught by Rusterholz at col. 49, lines 10-14,

and the "...by referring to the read piece of position information..." is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

7. As per independent claim 6, the "...file storage unit operable to store files which each include a plurality of pieces of data..." is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7,

the "...that have each been assigned a timecode..." is taught by Hisatomi at col. 5, lines 37-53 and col. 20, lines 49-54,

the "...first position information storage unit operable to store pieces of position information..." is taught by Rusterholz at col. 137, cline 38-41 and col. 49, lines 10-14,

the "...that indicate file storage positions in the file storage unit..." is taught by Rusterholz at col. 163, lines 54-56, col. 39, lines 27-35, and col. 49, lines 10-14,

the "...pieces of position information being in a one-to-one correspondence..." is taught by Rusterholz at col. 137, lines 38-41 and col. 52, lines 62-66,

the "...with file names..." is taught by Hisatomi at col. 19, lines 21-24,

the "...second position information storage unit operable to store pieces of position information..." is taught by Rusterholz col. 137, cline 38-41 and col. 49, lines 10-14,

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the "...that indicate segment storage positions in the file storage unit..." is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14,

the "...pieces of position information being in a one-to-one correspondence with segment name..." is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39,

the "...and each segment being a set of pieces of data..." is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...having consecutive timecodes..." is taught by Hisatomi at col. 4, lines 46-48 and col. 20, lines 49-54,

the "...access request receiving unit operable to receive an access request..." is taught by Furigati at col. 13, lines 4-9,

the "...specifying an access target name which is either a segment name..." is taught by Rusterholz at col. 106, lines 16-19, col. 134, lines 59-61, and col. 39, lines 35-39,

the "...or a file name..." is taught by Hisatomi at col. 19, lines 21-24,

the "...judgement unit operable to judge..." is taught by Rusterholz at col. 234, lines 40-44,

the "...whether the access target name is a segment name..." is taught by Rusterholz at col. 106, lines 16-19, col. 134, lines 59-61, and col. 39, lines 35-39,

the "...or a file name..." is taught by Hisatomi at col. 19, lines 21-24,

the position information read unit operable to read..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

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the "...from either the first position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19, col. 137, lines 38-41 and col. 49, lines 10-14,

the "...or the second position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14;

the "...a piece of position information corresponding to the access target name...", is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, col. 106, lines 16-19, and col. 134, lines 59-61,

the "...judged by the judgement unit...", is taught by Rusterholz at col. 234, lines 40-44,

the "...and an access unit operable to access...", is taught by Rusterholz at col. 6, lines 10-14,

the "...either a segment or a file stored in the file storage unit...", is taught by Rusterholz at col. 39, lines 27-35, col. 53, lines 7-9, and col. 49, lines 10-14,

and the "...by referring to the read piece of position information...", is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

8. As per independent claims 8, 22, and 27 the "...file obtaining unit operable to obtain files...", is taught by Rusterholz at col. 39, lines 55-56,

the "...which each include a plurality of pieces of video data...", is taught by Hisatomi at col. 1, lines 46-51,

the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-45 and col. 20, lines 49-54,

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the "...and store the obtained files in a file storage unit...", is taught by Rusterholz at col. 49, lines 54-57, col. 39, lines 55-56, and col. 49, lines 10-14,

the "...file storage unit operable to store the obtained files...", is taught by Rusterholz at col. 49, lines 10-14 and col. 49, col. 54-57,

the "...position information obtaining unit operable to recognize each set of pieces of data...", is taught by Furegati at col. 2, lines 46-49 and col. 3, lines 43-45,

the "...having consecutive timecodes as a segment...", is taught by Hisatomi at col. 4, lines 46-48, col. 20, lines 49-54, col. 8, line 67, and col. 9, lines 1-3,

the "...obtain pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41,

the "...that indicate segment storage positions in the file storage unit...", is taught by Rusterholz at col. 39, lines 34-35, col. 137, lines 38-41, and col. 49, lines 10-14,

the "...and store the obtained pieces of position information...", is taught by Rusterholz at col. 49, lines 54-57 and col. 137, lines 38-41,

the "...in a position information storage unit...", is taught by Rusterholz at col. 49, lines 10-14,

the "...position information storage unit operable to store the obtained pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, 10-14,

the "...a segment access request receiving unit operable to receive a segment access request specifying a segment...", is taught by Furegati at col. 13, lines 4-9,

the "...position information read unit operable to read...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

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the "...from the position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...a piece of position information corresponding to the segment...", is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, col. 39, lines 27-35,

the "...specified in the segment access request...", is taught by Furegati at col. 13, lines 4-9,

the "...and a segment access unit operable to access the segment...", is taught by Furegati at col. 8, lines 39-43,

the "...in the file storage unit...", is taught by Rusterholz at col. 49, lines 10-14,

and the "...by referring to the read piece of position information...", is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

9. As per independent claim 9, the "...a file obtaining unit operable to obtain files...", is taught by Rusterholz at col. 39, lines 55-56,

the "...which each include a plurality of pieces of video data...", is taught by Hisatomi at col. 1, lines 46-51,

the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-45 and col. 20, lines 49-54,

the "...and store the obtained files in a file storage unit...", is taught by Rusterholz at col. 49, lines 54-57, col. 39, lines 55-56, and col. 49, lines 10-14,

the "...file storage unit operable to store the obtained files...", is taught by Rusterholz at col. 49, lines 10-14 and col. 49, col. 54-57,

the "...a segment identifying unit...", is taught by Rusterholz at col. 265, lines 45-47,

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the "...operable to recognize each set of pieces of video data...", is taught by Furegati at col. 2, lines 46-49, col. 3, lines 43-45, and col. 14, lines 1-2,

the "...having consecutive timecodes as a segment...", is taught by Hisatomi at col. 4, lines 46-48, col. 20, lines 49-54, col. 8, line 67, and col. 9, lines 1-3,

the "...position information creating unit operable to create pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 42, lines 50-52,

the "...that indicate storage positions of the identified segments in the file storage unit...", is taught by Rusterholz at col. 39, lines 34-35, col. 137, lines 38-41, and col. 49, lines 10-14,

the "...and store the created pieces of position information...", is taught by Rusterholz at col. 49, lines 54-57, col. 42, lines 50-52, and col. 137, lines 38-41,

the "...in a position information storage unit...", is taught by Rusterholz at col. 49, lines 10-14,

the "...position information storage unit operable to store the created pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41, col. 49, 10-14, and col. 42, lines 50-52,

the "...a segment access request receiving unit operable to receive a segment access request specifying a segment...", is taught by Furegati at col. 13, lines 4-9,

the "...a position information read unit operable to read...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

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the "...a piece of position information corresponding to the segment...", is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, col. 39, lines 27-35, the "...specified in the segment access request...", is taught by Furegati at col. 13, lines 4-9, the "...and a segment access unit operable to access the segment...", is taught by Furegati at col. 8, lines 39-43, the "...in the file storage unit...", is taught by Furegati at col. 8, lines 39-43, and the "...by referring to the read piece of position information...", is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

10. As per independent claim 16, the "...file storage unit operable to store files which each include a plurality of pieces of data...", is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7, the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-53 and col. 20, lines 49-54, the "...a position information storage unit operable to store pieces of position information...", is taught by Rusterholz at col. 137, cline 38-41 and col. 49, lines 10-14, the "...that indicate positions of free spaces in the files...", is taught by Hisatomi at col. 2, lines 10-22, col. 11, lines 53-60, and col. 6, lines 31-37, the "...each free space not storing a segment...", is taught by Hisatomi at col. 11, lines 53-60, col. 6, lines 31-39, col. 8, line 67, and col. 9, lines 1-3, the "...and each segment being a set of pieces of data...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

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the "...having consecutive timecodes...", is taught by Hisatomi at col. 4, lines 46-48, and col. 20, lines 49-54,

the "...an add request receiving unit operable to receive a segment add request...", is taught by Furegati at col. 2, lines 62-66 and col. 13, lines 4-9,

the "...which requests to add a new segment to a file...", is taught by Furagati at col. 2, lines 62-66, col. 8, lines 39-43, and col. 10, lines 7-9,

the "...a segment obtaining unit operable to obtain a new segment...", is taught by Rusterholz at col. 39, lines 27-35 and col. 39, lines 55-56,

the "...position information read unit operable to read...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...piece of free space position information...", is taught by Hisatomi at col. 11, lines 53-60 and col. 2, lines 10-22,

the "...and a segment add unit operable to add the new segment...", is taught by Furegati at col. 2, lines 62-66 and col. 8, lines 39-43,

the "...to the file storage unit...", is taught by Rusterholz at col. 49, lines 10-14,

and the "...by referring to the read piece of free space position information...", is taught by Hisatomi at col. 11, lines 41-49, col. 11, lines 53-60, and col. 2, lines 10-22.

11. As per independent claim 17, the "...file storage unit operable to store files which each include a plurality of pieces of data...", is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7,

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the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-53 and col. 20, lines 49-54,

the "...position information storage unit operable to store...", is taught by Rusterholz at col. 137, cline 38-41 and col. 49, lines 10-14,

the "...pieces of free space position information...", is taught by Hisatomi at col. 11, lines 53-60 and col. 2, lines 10-22,

the "...that indicate positions of free spaces in the files...", is taught by Hisatomi at col. 2, lines 10-22, col. 11, lines 53-60, and col. 6, lines 31-37,

the "...each free space not storing a segment...", is taught by Hisatomi at col. 11, lines 53-60, col. 6, lines 31-39, col. 8, line 67, and col. 9, lines 1-3,

the "...and also store pieces of segment position information...", is taught by Rusterholz at col. 49, lines 54-57, col. 39, lines 27-35, and col. 137, lines 38-41,

the "...that indicate positions of segments in the files...", is taught by Rusterholz at col. 39, lines 27-35, col. 137, lines 38-41, and col. 39, lines 55-56,

the "...each segment being a set of pieces of data...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...having consecutive timecodes...", is taught by Hisatomi at col. 4, lines 46-48 and col. 20, lines 49-54,

the "...add request receiving unit operable to receive a segment set add request...", is taught by Furegati at col. 2, lines 62-66, col. 13, lines 4-9, col. 4, lines 43-45, and col. 8, lines 39-43,

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the "...specifying (1) an add destination file...", is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

the "...and (2) a source file...", is taught by Rusterholz at col. 175, lines 10-12,

the "...including a segment set...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...which is to be added to the add destination file...", is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

the "...position information read unit operable to read...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...piece of free space position information...", is taught by Hisatomi at col. 11, lines 53-60 and col. 2, lines 10-22,

the "...indicating a position of a free space...", is taught by Hisatomi at col. 2, lines 10-22, and col. 11, lines 53-60,

the "...of the specified add destination file...", is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

the "...segment set extract unit operable to extract all segments...", is taught by Rusterholz at col. 207, lines 15-17, col. 39, lines 27-35, and col. 146, lines 38-40,

the "...included in the source file as a segment set...", is taught by Rusterholz at col. 175, lines 10-12, col. 207, lines 15-17, and col. 39, lines 27-35,

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the "...by referring to the pieces of segment position information..." is taught by

Rusterholz at col. 39, lines 27-35 and col. 137, lines 38-41,

the "...stored in the position information storage unit..." is taught by Rusterholz at col.

137, lines 38-41, col. 49, 10-14, and col. 42, lines 50-52,

the "...and a segment set add unit operable to add..." is taught by Rusterholz at col. 39,

lines 27-35, col. 201, lines 41-42, and col. 84, lines 50-52,

the "...extracted segment set..." is taught by Rusterholz at col. 146, lines 38-40, col. 39,

lines 27-35, and col. 201, lines 41-42,

the "...to the free space..." is taught by Hisatomi at col. 11, lines 53-60,

and the "...by referring to the read piece of free-space position information..." is taught

by Hisatomi at col. 11, lines 41-49, col. 11, lines 53-60, and col. 2, lines 10-22.

12. As per independent claim 18, the "...a file storage unit operable to store

files which each include a plurality of pieces of data..." is taught by Rusterholz at col.

49, lines 10-14, col. 49, lines 54-57, and col. 160, lines 6-7,

the "...that have each been assigned a timecode..." is taught by Hisatomi at col. 5, lines

37-53 and col. 20, lines 49-54,

the "...position information storage unit operable to store..." is taught by Rusterholz at

col. 137, cline 38-41 and col. 49, lines 10-14,

the "...pieces of free space position information..." is taught by Hisatomi at col. 11, lines

53-60 and col. 2, lines 10-22,

the "...that indicate positions of free spaces in the files..." is taught by Hisatomi at col. 2,

lines 10-22, col. 11, lines 53-60, and col. 6, lines 31-37,

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"...each segment being a set of pieces of data..." is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...having consecutive timecodes..." is taught by Hisatomi at col. 4, lines 46-48 and col. 20, lines 49-54,

"...an add request receiving unit operable to receive a file add request..." is taught by Furegati at col. 2, lines 62-66, col. 10, lines 7-11, and col. 13, lines 4-9,

"...specifying (1) an add destination file..." is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

the "...and (2) a source file..." is taught by Rusterholz at col. 175, lines 10-12,

"...which is to be added to the add destination file..." is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

the "...a position information read unit operable to read..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...piece of free space position information..." is taught by Hisatomi at col. 11, lines 53-60 and col. 2, lines 10-22,

the "...indicating a position of a free space..." is taught by Hisatomi at col. 2, lines 10-22, and col. 11, lines 53-60,

the "...of the specified add destination file..." is taught by Rusterholz at col. 84, lines 50-52 and col. 175, lines 10-12,

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the "...file add unit operable to add the source file...", is taught by Rusterholz at col. 53, lines 7-9, col. 84, lines 50-52, and col. 175, lines 10-12, the "...to the free space...", is taught by Hisatomi at col. 11, lines 53-60, and the "...by referring to the read piece of free space position information...", is taught by Hisatomi at col. 11, lines 41-49, col. 11, lines 53-60, and col. 2, lines 10-22.

13. As per independent claims 21 and 26, the "...an access request receiving step for receiving a segment access request...", is taught by Furigati at col. 13, lines 4-9, the "...specifying a segment name...", is taught by Rusterholz at col. 39, lines 35-39, the "...each segment being a set of pieces of data...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42, the "...having consecutive timecodes...", is taught by Hisatomi at col. 4, lines 46-48 and col. 20, lines 49-54, the "...among a plurality of pieces of data stored in a file storage unit...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42, the "...a position information read step for reading...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19, the "...from a position information storage unit which stores pieces of position information...", is taught by Rusterholz at col. 137, cline 38-41 and col. 49, lines 10-14, the "...that are in a one-to-one correspondence with segment names...", is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39, the "...and indicate segment storage positions in a file storage unit...", is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14,

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the "...a piece of position information corresponding to the segment name...", is taught by Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, and col. 39, lines 35-39, the "...specified in the segment access request...", is taught by Furegati at col. 13, lines 4-9, the "...and a segment access step for accessing a segment...", is taught by Furegati at col. 8, lines 39-43, the "...in the file-storage unit...", is taught by Rusterholz at col. 49, lines 10-14, and the "...by referring to the read piece of position information...", is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

14. As per claims 23 and 28, the "...a file obtaining step for obtaining files...", is taught by Rusterholz at col. 39, lines 55-56, the "...which each include a plurality of pieces of video data...", is taught by Hisatomi at col. 1, lines 46-51, the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-45 and col. 20, lines 49-54, the "...and storing the obtained files in a file storage unit...", is taught by Rusterholz at col. 49, lines 54-57, col. 39, lines 55-56, and col. 49, lines 10-14, the "...a segment identifying step...", is taught by Rusterholz at col. 265, lines 45-47, the "...for recognizing each set of pieces of video data...", is taught by Furegati at col. 2, lines 46-49, col. 3, lines 43-45, and col. 14, lines 1-2, the "...having consecutive timecodes as a segment...", is taught by Hisatomi at col. 4, lines 46-48, col. 20, lines 49-54, col. 8, line 67, and col. 9, lines 1-3,

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the "...a position information creating step for creating pieces of position information...",

is taught by Rusterholz at col. 137, lines 38-41 and col. 42, lines 50-52,

the "...that indicate storage positions of the identified segments in the file storage unit...",

is taught by Rusterholz at col. 39, lines 34-35, col. 137, lines 38-41, and col. 49, lines

10-14,

the "...and storing the created pieces of position information...", is taught by Rusterholz

at col. 49, lines 54-57, col. 42, lines 50-52, and col. 137, lines 38-41,

the "...in a position information storage unit...", is taught by Rusterholz at col. 49, lines

10-14,

the "...a segment access request receiving step for receiving a segment access request

specifying a segment...", is taught by Furegati at col. 13, lines 4-9,

the "...a position information read step for reading...", is taught by Rusterholz at col. 137,

lines 38-41 and col. 54, lines 17-19,

the "...from the position information storage unit...", is taught by Rusterholz at col. 137,

lines 38-41 and col. 49, lines 10-14,

the "...a piece of position information corresponding to the segment...", is taught by

Rusterholz at col. 137, lines 38-41, col. 52, lines 62-66, col. 39, lines 27-35,

the "...specified in the segment access request...", is taught by Furegati at col. 13, lines

4-9,

the "...and a segment access step for accessing the segment...", is taught by Furegati at

col. 8, lines 39-43,

the "...in the file storage unit...", is taught by Furegati at col. 8, lines 39-43,

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and the "...by referring to the read piece of position information..." is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41.

15. As per claim 3, the "...each piece of segment position information..." is taught by Rusterholz at col. 137, lines 38-41, the "...includes (1) an address indicating a file start storage position of a file..." is taught by Rusterholz at col. 135, lines 67-68 and col. 136, line 1, the "...to which the segment belongs..." is taught by Rusterholz at col. 40, lines 31-32, the "...and either (2-1) (a) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36, the "...between the file start and a start of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, and col. 61, lines 34-36, the "...and (b) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36, the "...between the file start and an end of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, col. 186, lines 29-34, and col. 39, lines 27-35, the "...or (2-2) (a) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36, the "...between the file start and a start of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, and col. 61, lines 34-36, and the "...and (c) a size of the segment..." is taught by Rusterholz at col. 39, lines 35-39.

16. As per claim 4, the "...a receiving unit operable to receive a segment name obtainment request..." is taught by Rusterholz at col. 46, lines 39-44, col. 39, lines 35-39, and col. 256, lines 9-10,
the "...and a segment name output unit operable to..." is taught by Rusterholz at col. 39, lines 35-39 and col. 174, lines 23-25,
the "...after the receiving unit receives the segment name obtainment request..." is taught by Rusterholz at col. 46, lines 39-44, col. 39, lines 35-39, and col. 256, lines 9-10,
the "...refer to the position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,
the "...and output to outside the file management apparatus..." is taught by Rusterholz at col. 174, lines 23-25 and col. 171, lines 25-27,
the "...a list of segment names..." is taught by Rusterholz at col. 91, lines 56-58 and col. 39, lines 35-39,
the "...which each include at least (1) a file name of a file..." is taught by Hisatomi at col. 19, lines 21-24,
the "...to which the segment belongs..." is taught by Rusterholtz at col. 40, lines 31-32,
the "...and (2) a character sequence..." is taught by Rusterholz at col. 36, line 63,
the "...which indicates a position of the segment..." is taught by Rusterholz at col. 37, lines 3-5 and col. 39, lines 35-39,
and the "...in one or more segments belonging to the file..." is taught by Rusterholz at col. 40, lines 31-32.

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17. As per claim 5, the "...the position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14, the "...stores a table showing relationships..." is taught by Hisatomi at col. 21, lines 55-62, the "...between (1) file names of files to which the segments belong..." is taught by Hisatomi at col. 19, lines 21-24, col. 8, line 67, and col. 9, lines 1-3, the "... (2) serial numbers of the segments in the files..." is taught by Hisatomi at col. 5, lines 66-67, col. 6, lines 1-2, col. 8, line 67, col. 9, lines 1-3, and col. 15, lines 30-34, the "...which are assigned in order of storage in the files..." is taught by Rusterholz at col. 230, lines 1-4 and col. 53, lines 7-9, the "...and (3) pieces of position information..." is taught by Rusterholz at col. 137, lines 38-41, the "...and the position information read unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19, the "...after receiving a segment name..." is taught by Rusterholz at col. 39, lines 35-39, the "...refers to the table to detect a piece of position information..." is taught by Rusterholz at col. 63, lines 48-51 and col. 137, lines 38-41, the "...that corresponds to a file name and a serial number of the segment..." is taught by Hisatomi at col. 19, lines 21-24, col. 5, lines 66-67, col. 6, lines 1-2, col. 8, line 67, and col. 9, lines 1-3, the "...which are included in the segment name..." is taught by Rusterholz at col. 39, lines 35-39,

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and the "...and reads the detected piece of position information from the table..." is taught by Rusterholz at col. 54, lines 17-19, col. 137, lines 38-41, and col. 39, lines 35-39.

18. As per claim 7, the "...judgement unit judges that the access target name is a segment name..." is taught by Rusterholz at col. 234, lines 40-44, col. 106, lines 16-19, col. 134, lines 59-61, and col. 39, lines 35-39, the "...when the access target name..." is taught by Rusterholz at col. 106, lines 16-19 and col. 134, lines 59-61, the "...includes a name of a file..." is taught by Hisatomi at col. 19, lines 21-24, the "...stored in the file storage unit..." is taught by Rusterholz at col. 49, lines 10-14, the "...and a character sequence..." is taught by Rusterholz at col. 36, line 63, and the "...indicating a serial number of a segment in the file..." is taught by Hisatomi at col. 5, lines 66-67, col. 6, lines 1-2, col. 8, line 67, col. 9, lines 1-3, and col. 15, lines 30-34.

19. Claims 10-15, 19, 20, 24, 25, 29, and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Rusterholz et al. (U.S. Patent No. 4,873,630), Furegati et al. (U.S. Patent No. 5,966,704), Hisatomi et al. (U.S. Patent No. 6,546,192), and Kinkade (U.S. Patent No. 4,218,765).

20. Rusterholz renders obvious independent claim 10 by the following: "...a file storage unit operable to store files which each include one or more segments..." at col. 49, lines 10-14, col. 49, lines 54-57, and col. 39, lines 27-35.

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"...a position information storage unit operable to store pieces of position information..."

at col. 137, lines 38-41 and col. 49, lines 10-14.

"...that indicate segment storage positions in the file storage unit..." at col. 39, lines 27-35, col. 137, lines 38-41, and col. 49, lines 10-14.

"...each segment set being composed of all segments in a file..." at col. 207, lines 15-17, col. 31, lines 3-6, col. 39, lines 27-35, and col. 53, lines 7-9.

"...and a character sequence unique..." at col. 36, line 63, col. 27, line 68, and col. 28, lines 1-4.

"...a position information read unit..." at col. 137, lines 38-41 and col. 54, lines 17-19.

"...to which a segment set..." at col. 39, lines 27-35 and col. 207, lines 15-17.

"...and read, from the position information storage unit..." at col. 54, lines 17-19, col. 137, lines 38-41, and col. 49, lines 10-14.

"...pieces of position information corresponding to all segments..." at col. 137, lines 38-41, and col. 31, lines 3-6.

"...recognizing the read pieces of position information..." at col. 137, lines 38-41 and col. 54, lines 17-19.

"...In the file storage unit..." at col. 49, lines 10-14.

"...as a piece of position information of the segment set..." at col. 137, lines 38-41, col. 207, lines 15-17, and col. 39, lines 27-35.

"...by referring to the piece of position information of the segment set..." at col. 137, lines 38-41, col. 207, lines 15-17, and col. 39, lines 27-35.

Rusterholz does not teach the use of segment access requests, the use of file names, the use of logical units, and the use of segment set names.

21. However, Furegati teaches the use of segment access requests as follows:

"...an access request receiving unit operable to receive a segment set access request..." at col. 13, lines 4-9 and col. 3, lines 43-45.

"...and a segment set access unit operable to access the segment set..." at col. 13, lines 4-9 and col. 3, lines 43-45.

It would have been obvious to one of ordinary skill at the time of the invention to combine Furegati with Rusterholz since both Rusterholz and Furegati teach the use of computers, the use of files, the use of segments, the storing of data, the searching for data, and the processing of requests. Rusterholz provides file storage units, position information, the storage of segments, and segment names and Furegati provides segment access requests.

Furegati does not teach the use of file names, the use of logical units, and the use of segment set names.

22. However, Hisatomi teaches the use of file names as follows:
"...including a name of the file..." at col. 19, lines 21-24.

It would have been obvious to one of ordinary skill at the time of the invention to combine Hisatomi with Rusterholz and Furegati since Rusterholz, Furegati, and Hisatomi teach the use of computers, the use of files, the use of segments, the storing of data, and the searching for data, Rusterholz and Hisatomi teach the use of memory,

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and Furegati and Hisatomi teach the use of video. Rusterholz provides file storage units, position information, storage units, the storage of segments, and segment names, Furgati provides segment access requests, and Hisatomi provides file names.

Hisatomi does not teach the use of logical units and the use of segment set names.

23. However, Kinkade teaches the use of logical units and the use of segment set names as follows:

"...that are each a logical unit..." at col. 30, line 52.

"...specifying a segment set name..." at col. 15, lines 19-22 and col. 31, lines 36-41.

"...and each segment set name..." at col. 15, lines 19-22 and col. 31, lines 36-41.

"...to segment set names..." at col. 15, lines 19-22 and col. 31, lines 36-41.

"...operable to identify a file..." at col. 31, lines 1-3.

"...corresponding to the specified segment set name belongs..." at col. 15, lines 19-22 and col. 31, lines 36-41.

"...belonging to the identified file..." at col. 31, lines 1-3.

It would have been obvious to one of ordinary skill at the time of the invention to combine Kinkade with Rusterholz, Furegati, and Hisatomi since Rusterholz, Furegati, Hisatomi, Kinkade teach the use of computers, the use of files, the use of segments, the storing of data, and the searching for data, Rusterholz, Furegati, and Kinkade teach the use of requests, and Rusterholz, Hisatomi, and Kinkade teach the use of memory. Rusterholz provides file storage units, position information, storage units, the storage of

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segments, and segment names, Furgati provides segment access requests, Hisatomi provides file names, and Kinkade provides logical units and segment set names.

24. As per independent claim 14, the "...a file storage unit operable to store files which each include one or more segments...", is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 39, lines 27-35, the "...that are each a logical unit...", is taught by Kinkade at col. 30, line 52, the "...a first position information storage unit operable to store pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14, the "...that indicate file storage positions in the file storage unit...", is taught by Rusterholz at col. 39, lines 27-35, col. 137, lines 38-41, and col. 49, lines 10-14, the "...the pieces of position information being in a one-to-one correspondence...", is taught by Rusterholz at col. 137, lines 38-41 and col. 52, lines 62-66, the "...with file names...", is taught by Hisatomi at col. 19, lines 21-24, the "...a second position information storage unit operable to store pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14, the "...that indicate segment storage positions in the file storage unit...", is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14, the "...an access request receiving unit operable to receive an access request...", is taught by Furgati at col. 13, lines 4-9, the "...specifying an access target name...", is taught by Rusterholz at col. 106, lines 16-19 and col. 134, lines 59-61,

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"...a judgement unit operable to judge..." is taught by Rusterholz at col. 234, lines 40-44,

the "...whether the access target name..." is taught by Rusterholz at col. 106, lines 16-19 and col. 134, lines 59-61,

the "...is a segment set name..." is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

the "...or a file name..." is taught by Hisatomi at col. 19, lines 21-24,

the "...each segment set being a set of all segments included in one file..." is taught by Rusterholz at col. 207, lines 15-17, col. 31, lines 3-6, col. 39, lines 27-35, and col. 53, lines 7-9,

the "...position information read unit operable to read..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...from either the first position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...or the second position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...a piece of position information corresponding to the access target name..." is taught by Rusterholz at col. 137, lines 38-41, col. 106, lines 16-19, and 134, lines 59-61,

the "...judged by the judgement unit..." is taught by Rusterholz at col. 234, lines 40-44,

the "...and an access unit operable to access either a segment set..." is taught by Furegati at col. 13, lines 4-9 and col. 3, lines 43-45,

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"...or a file stored in the file storage unit..." is taught by Rusterholz at col. 49, lines 10-14,

and the "...by referring to the read piece of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19.

25. As per independent claim 19, the "...a file storage unit operable to store files which each include one or more segments..." is taught by Rusterholz at col. 49, lines 10-14, col. 49, lines 54-57, and col. 39, lines 27-35, the "...that are each a logical unit..." is taught by Kinkade at col. 30, line 52, the "...position information storage unit operable to store pieces of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14, the "...that indicate segment storage positions in the file storage unit..." is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14, the "...access request receiving unit operable to receive a segment partial set access request..." is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45, the "...specifying a file name and a condition..." is taught by Hisatomi at col. 8, line 67, col. 9, lines 1-3, col. 19, lines 21-24, and col. 6, lines 2-14, the "...each segment partial set being a set of one or more segments in one file..." is taught by Furegati at col. 8, lines 38-42, col. 4, lines 8-15, col. 3, lines 43-45, and col. 10, lines 7-10, the "...a position information read unit operable to read..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

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the "...from the position information storage unit..." is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...pieces of position information corresponding to all segments..." is taught by Rusterholz at col. 137, lines 38-41, and col. 31, lines 3-6,

"...belonging to the specified file and satisfying the specified condition..." is taught by Hisatomi at col. 7, lines 55-58, col. 8, line 67, col. 9, lines 1-3, col. 15, lines 30-34, and col. 6, lines 2-14,

the "...recognizing the read pieces of position information as a piece of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...of the requested segment partial set..." is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45,

the "...and a segment partial set access unit operable to access the segment partial set..." is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45,

the "...by referring to the piece of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...of the segment partial set..." is taught by Furegati at col. 4, lines 8-15, and col. 3, lines 43-45.

26. As per independent claims 24 and 29, the "...an access request receiving step for receiving a segment set access request..." is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45,

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the "...specifying a segment set name...", is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

"...each segment set being composed of all segments in a file...", is taught by Rusterholz at col. 207, lines 15-17, col. 31, lines 3-6, col. 39, lines 27-35, and col. 53, lines 7-9,

the "...each segment set name...", is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

the "...including a name of the file...", is taught by Hisatomi at col. 19, lines 21-24,

the "...and a character sequence unique...", is taught by Rusterholz at col. 36, line 63, col. 27, line 68, and col. 28, lines 1-4,

the "...to segment set names...", is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

the "...and each segment being a logical unit...", is taught by Kinkade at col. 15, lines 19-22 and col. 30, line 52,

the "...position information read step...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

for identifying a file...", is taught by Kinkade at col. 31, lines 1-3,

the "...to which a segment set...", is taught by Rusterholz at col. 39, lines 27-35 and col. 201, lines 41-42,

the "...corresponding to the specified segment set name belongs...", is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

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the "...and reading, from a position information storage unit...", is taught by Rusterholz at col. 54, lines 17-19, col. 137, lines 38-41, and col. 49, lines 10-14,

the "...which stores pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14,

the "...that indicate segment storage positions in a file storage unit...", is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14,

the "...pieces of position information corresponding to all segments...", is taught by Rusterholz at col. 137, lines 38-41, and col. 31, lines 3-6,

the "...belonging to the identified file...", is taught by Kinkade at col. 31, lines 1-3,

the "...recognizing the read pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

the "...as a piece of position information of the segment set...", is taught by Rusterholz at col. 137, lines 38-41, col. 207, lines 15-17, and col. 39, lines 27-35,

the "...and a segment set access step for accessing the segment set...", is taught by Furegati at col. 13, lines 4-9 and col. 3, lines 43-45,

the "...in the file storage unit...", is taught by Rusterholz at col. 49, lines 10-14,

the "...by referring to the piece of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,

and the "...of the segment set...", is taught by Rusterholz at col. 39, lines 27-35 and col. 207, lines 15-17.

27. As per independent claims 25 and 30, the "...an access request receiving step for receiving a segment partial set access request...", is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45, the "...specifying a file name and a condition...", is taught by Hisatomi at col. 8, line 67, col. 9, lines 1-3, col. 19, lines 21-24, and col. 6, lines 2-14, the "...the segment partial set access request requesting to access a segment partial set...", is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45, the "...which is a set of one or more segments...", taught by Furegati at col. 8, lines 38-42, col. 4, lines 8-15, and col. 3, lines 43-45, the "...satisfying the specified condition...", is taught by Hisatomi at col. 8, line 67, col. 9, lines 1-3, and col. 6, lines 2-14, the "...and each segment being a logical unit...", is taught by Kinkade at col. 15, lines 19-22 and col. 30, line 52, the "...and being included in a file stored in a file storage unit...", is taught by Rusterholz at col. 49, lines 10-14, the "...a position information read step for reading...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19, the "...from a position information storage unit which stores pieces of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 49, lines 10-14, the "...that indicate segment storage positions in the file storage unit...", is taught by Rusterholz at col. 39, lines 27-35 and col. 49, lines 10-14,

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the "...pieces of position information corresponding to all segments...", is taught by Rusterholz at col. 137, lines 38-41, and col. 31, lines 3-6,
the "...belonging to the specified file...", is taught by Kinkade at col. 31, lines 1-3,
the "...and satisfying the specified condition...", is taught by Hisatomi at col. 8, line 67, col. 9, lines 1-3, and col. 6, lines 2-14,
the "...recognizing the read pieces of position information...", is taught by Rusterholz at col. 54, lines 17-19 and col. 137, lines 38-41,
the "...as a piece of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,
the "...of the segment partial set...", is taught by Furegati at col. 4, lines 8-15, and col. 3, lines 43-45,
the "...and a segment partial set access step for accessing the segment partial set...", is taught by Furegati at col. 13, lines 4-9, col. 4, lines 8-15, and col. 3, lines 43-45,
the "...by referring to the piece of position information...", is taught by Rusterholz at col. 137, lines 38-41 and col. 54, lines 17-19,
and the "...of the segment partial set...", is taught by Furegati at col. 4, lines 8-15, and col. 3, lines 43-45.

28. As per claim 11, the "...each piece of segment position information...", is taught by Rusterholz at col. 137, lines 38-41,
the "...includes (1) an address indicating a file start storage position of a file...", is taught by Rusterholz at col. 135, lines 67-68 and col. 136, line 1,
the "...to which the segment belongs...", is taught by Rusterholz at col. 40, lines 31-32,

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the "...and either (2-1) (a) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36,

the "...between the file start and a start of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, and col. 61, lines 34-36,

the "...and (b) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36,

the "...between the file start and an end of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, col. 186, lines 29-34, and col. 39, lines 27-35,

the "...or (2-2) (a) an address offset indicating a size of a portion..." is taught by Rusterholz at col. 74, lines 3-4 and col. 57, lines 34-36,

the "...between the file start and a start of the segment..." is taught by Rusterholz at col. 135, lines 67-68, col. 136, line 1, and col. 61, lines 34-36,

and the "...and (c) a size of the segment..." is taught by Rusterholz at col. 39, lines 35-39.

29. As per claim 12, the "...a receiving unit operable to receive a segment name obtainment request..." is taught by Rusterholz at col. 46, lines 39-44, col. 39, lines 35-39, and col. 256, lines 9-10,

the "...and a segment name output unit operable to..." is taught by Rusterholz at col. 39, lines 35-39 and col. 174, lines 23-25,

the "...after the receiving unit receives the segment set name obtainment request..." is taught by Kinkade at col. 22, lines 66-68, col. 15, lines 19-22, col. 31, lines 36-41, and col. 18, lines 10-12,

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the "...refer to the position information storage unit...", is taught by Rusterholz at col.

137, lines 38-41 and col. 49, lines 10-14,

the "...and output to outside the file management apparatus...", is taught by Rusterholz

at col. 174, lines 23-25 and col. 171, lines 25-27,

the "...a list of...", is taught by Rusterholz at col. 91, lines 56-58,

the "...segment set names...", is taught by Kinkade at col. 15, lines 19-22 and col. 31,

lines 36-41,

the "...which each include at least (1) a file name of a file...", is taught by Hisatomi at col.

19, lines 21-24,

the "...to which the segment set belongs...", is taught by Kinkade at at col. 15, lines 19-

22 and col. 31, lines 36-41,

the "...and (2) a character sequence unique...", is taught by Rusterholz at col. 36, line

63, col. 27, line 68, and col. 28, lines 1-4,

the "...to segment set names...", is taught by Kinkade at at col. 15, lines 19-22 and col.

31, lines 36-41,

and the "...in one or more segments belonging to the file...", is taught by Rusterholz at

col. 40, lines 31-32.

30. As per claim 13, the "...each file includes a plurality of pieces of video data...", is taught by Hisatomi at col. 6, lines 31-37,

the "...that have each been assigned a timecode...", is taught by Hisatomi at col. 5, lines 37-45 and col. 39, lines 55-56,

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the "...and the file management apparatus further comprises..." is taught by Rusterholz at col. 171, lines 25-27,

the "...a segment identifying unit..." is taught by Rusterholz at col. 265, lines 45-47,

the "...operable to recognize each set of pieces of video data..." is taught by Furegati at col. 2, lines 46-49, col. 3, lines 43-45, and col. 14, lines 1-2,

the "...having consecutive timecodes as a segment..." is taught by Hisatomi at col. 4, lines 46-48, col. 20, lines 49-54, col. 8, line 67, and col. 9, lines 1-3,

the "...and a position information creating unit operable to create pieces of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 42, lines 50-52,

the "...that indicate storage positions of the identified segments in the file storage unit..." is taught by Rusterholz at col. 39, lines 34-35, col. 137, lines 38-41, and col. 49, lines 10-14,

the "...and store the created pieces of position information..." is taught by Rusterholz at col. 49, lines 54-57, col. 42, lines 50-52, and col. 137, lines 38-41,

and the "...in the position information storage unit..." is taught by Rusterholz at col. 49, lines 10-14.

31. As per claim 15, the "...the judgement unit judges..." is taught by Rusterholz at col. 234, lines 40-44,

the "...that the access target name..." is taught by Rusterholz at col. 106, lines 16-19 and col. 134, lines 59-61,

the "...is a segment set name..." is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41,

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the "...when the access target name..." is taught by Rusterholz at col. 106, lines 16-19 and col. 134, lines 59-61,

the "...includes a name of a file..." is taught by Hisatomi at col. 19, lines 21-24,

the "...stored in the file storage unit..." is taught by Rusterholz at col. 49, lines 10-14,

the "...and a character sequence unique..." is taught by Rusterholz at col. 36, line 63, col. 27, line 68, and col. 28, lines 1-4,

and the "...to segment set names..." is taught by Kinkade at col. 15, lines 19-22 and col. 31, lines 36-41.

32. As per claim 20, the "...each file includes video data including portions..." is taught by Hisatomi at col. 15, lines 30-34 and col. 1, lines 46-51, the "...that have each been assigned a timecode..." is taught by Hisatomi at col. 5, lines 37-45 and col. 39, lines 55-56, the "...and the file management apparatus further comprises..." is taught by Rusterholz at col. 171, lines 25-27, the "...a segment identifying unit..." is taught by Rusterholz at col. 265, lines 45-47, the "...operable to recognize each set of video data portions..." is taught by Furegati at col. 2, lines 46-49, col. 3, lines 43-45, col. 14, lines 1-2, and col. 8, lines 39-43, the "...having consecutive timecodes as a segment..." is taught by Hisatomi at col. 4, lines 46-48, col. 20, lines 49-54, col. 8, line 67, and col. 9, lines 1-3, the "...and a position information creating unit operable to create pieces of position information..." is taught by Rusterholz at col. 137, lines 38-41 and col. 42, lines 50-52,

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the "...that indicate storage positions of the identified segments in the file storage unit..." is taught by Rusterholz at col. 39, lines 34-35, col. 137, lines 38-41, and col. 49, lines 10-14,

the "...and store the created pieces of position information..." is taught by Rusterholz at col. 49, lines 54-57, col. 42, lines 50-52, and col. 137, lines 38-41,

and the "...in the position information storage unit..." is taught by Rusterholz at col. 49, lines 10-14.

Conclusion

33. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Harold E. Dodds, Jr. whose telephone number is (703)-305-1802. The examiner can normally be reached on Monday - Friday 8:00 - 4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John E. Breene can be reached on (703)-305-9790. The fax phone number for the organization where this application or proceeding is assigned is (703) 746-7239.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-305-3900.

Harold E. Dodds, Jr.

Harold E. Dodds, Jr.
Patent Examiner
November 7, 2003


GRETA ROBINSON
PRIMARY EXAMINER